

  
PATENT**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application No.: Not yet assigned - US National Phase of PCT/JP2004/003301

International Filing Date: 12 March 2004 (12.03.2004)

Applicant: Eiji OKI et al.

Group Art Unit: Not yet assigned

Examiner: Not yet assigned

Title: OPTICAL NODE DEVICE, NETWORK CONTROL DEVICE,  
MAINTENANCE-STAFF DEVICE, OPTICAL NETWORK, AND  
3R RELAY IMPLEMENTATION NODE DECISION METHOD

Attorney Docket: 5259-000051/NP

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Director of the United States Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

**I. LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION**

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

**II. COPIES**

A.  Submitted herewith is a legible copy of (i) each foreign patent; (ii) each publication or that portion which caused it to be listed, other than U.S. patents and U.S. patent application publications unless required by the Office; (iii) each unpublished U.S. application listed below in Section IV (i.e., including the specification, claims, and any drawing of the application, or that portion of the application which caused it to be listed, including any claims directed to that portion), except for such applications filed on or after June 30, 2003, pursuant to the Waiver of the Copy Requirement in 37 C.F.R. 1.98 (OG Notice dated

October 19, 2004); and (iv) all other information or that portion which caused it to be listed.

B.  Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number

U.S. Filing Date

C.  This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search report are listed on the attached Form 1449 for consideration by the Examiner and for listing on any patent resulting from this application. If the International Search report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g).). Any additional foreign patent documents or non-patent literature listed on the attached Form HDP-1449 that are not listed on the International Search Report are enclosed herewith.

III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

A.  Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).

B.  A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):

1.  See the attached foreign patent office communication from a counterpart foreign application:

International Search Report for PCT/JP2004/003301, dated 06/08/2004

2.  English translations are provided:

English Abstract provided for Item #7 in "Other Documents"

3.  Other:

C.  The following additional information is provided for the Examiner's consideration.

IV. CROSS REFERENCE TO RELATED APPLICATION(S)

A.  The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does (do) not waive the confidentiality provisions of 35 U.S.C. § 122.

| <u>Serial No.</u> | <u>Filing Date</u> | <u>Art Unit</u> |
|-------------------|--------------------|-----------------|
|-------------------|--------------------|-----------------|

V. THIS IDS IS BEING FILED UNDER

A.  **37 C.F.R. § 1.97(b):** (check only one box)

1.  within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.
2.  within three months of the date of entry of the national stage as set forth in § 1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.
3.  before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).
4.  before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.

B.  **37 C.F.R. § 1.97(c):** (check only one box)

before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.

1.  No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
2.  See the certification below. No fee is required.

C.  37 C.F.R. § 1.97(d):

after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.

1.  See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)

The undersigned hereby certifies that:

A.  each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F.R. 1.704(d) below in section VII, if applicable; or

B.  no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).

C.  some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.

VII. STATEMENT UNDER 37 C.F.R. 1.704(d)

The undersigned hereby states that:

each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS.

VIII. PAYMENT OF FEES (check only one box)

- A.  A check in the amount of \$180.00 is enclosed for the above identified fee.
- B.  Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

Respectfully submitted,

Dated: April 14, 2005

By:   
David A. McClaughry  
Reg. No. 37,885

Harness, Dickey & Pierce, P.L.C.  
P.O. Box 828  
Bloomfield Hills, Michigan 48303  
(248) 641-1600

GAS/smc

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JC13 Rec'd PCT/PTO 14 APR 2005

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| FORM HDP-1449 (Based on Form PTO-1449) |  | ATTORNEY DOCKET NO. | SERIAL NO. |
|  |  | 5259-000051/NP      |            |
|  |  | APPLICANT           |            |
|  |  | Eiji OKI et al      |            |
|  |  | FILING DATE         | GROUP      |
|  |  |                     |            |

**PATENT AND TRADEMARK OFFICE**  
**INFORMATION DISCLOSURE CITATION**  
(Use several sheets if necessary)

Sheet 1 of 2

**U.S. PATENT DOCUMENTS**

| Ref. Desig. | Examiner's Initials | Document Number | Date | Name | Class/ Subclass | (If appropriate) Filing Date |
|-------------|---------------------|-----------------|------|------|-----------------|------------------------------|
| 1.          |                     |                 |      |      |                 |                              |

**FOREIGN PATENT DOCUMENTS**

| Ref. Desig. | Examiner's Initials | Document Number | Date       | Country | Class/ Subclass | Translation Yes | No |
|-------------|---------------------|-----------------|------------|---------|-----------------|-----------------|----|
| 1.          |                     | 2003-2441098 A  | 08/29/2003 | JP      |                 |                 |    |
| 2.          |                     | 2003-234771 A   | 08/22/2003 | JP      |                 |                 |    |
| 3.          |                     | 02-052535       | 02/22/1990 | JP      |                 |                 |    |

**OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)**

| Ref. Desig. | Examiner's Initials |   |
|-------------|---------------------|---|
| 1.          |                     | Eiji Oki, Daisaku Shimazaki, Kohei Shiomoto, Nobaki Matsuura, Wataru Imajuku and Naoaki Yamanaka, "Performance Evaluation of Distributed-Controlled Dynamic Wavelength-Conversion GMPLS Networks", Technical Report of IEICE, The Institute of Electronics, Information and Communication Engineers, February, 2002, pp. 5 - 10 |
| 2.          |                     | Ken-ichi Sato, Naoaki Yamanaka, Yoshihiro Takigawa, Masafumi Koga, Satoru Okamoto, Kohei Shiomoto, Eiji Oki and Wataru Imajuku, "GMPLS-Based Photonic Multilayer Router (Hikari Router) Architecture: An Overview of Traffic Engineering and Signaling Technology", IEEE Communications Magazine, March, 2002, pp. 96 - 101     |
| 3.          |                     | Eiji Oki, Daisaku Shimazaki, Kohei Shiomoto, Nobuaki Matsuura, Wataru Imajuku and Naoaki Yamanaka, "Performance of Distributed-Controlled Dynamic Wavelength-Conversion GMPLS Networks", First International Conference on Optical Communications and Networks 2002, November 11-14, 2002, Shangri-La Hotel, Singapore          |
| 4.          |                     | A. Banerjee et al, "Generalized Multiprotocol Label Switching: An Overview of Routing and Management Enhancements", IEEE Communications Magazine, pp. 144 - 150, January, 2001  |

Examiner:

Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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|  |  | 5259-000051/NP      |            |
|  |  | APPLICANT           |            |
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|  |  | FILING DATE         | GROUP      |
|  |  |                     |            |
| Sheet 2 of 2                           |  |                     |            |

**OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)**

| Ref. Desig. | Examiner's Initials |  |
|-------------|---------------------|--|
| 5.          |                     | A. Banerjee et al., "Generalized Multiprotocol Label Switching: An Overview of Signaling Enhancements and Recovery Techniques", IEEE Communications Magazine, pp. 144 - 151, July, 2001  |
| 6.          |                     | S. Okamoto et al., "Demonstration of the Highly Reliable HIKARI Router Network Based on a Newly Developed Disjoint Path Selection Scheme", IEEE Communications Magazine, pp. 52 - 59, November, 2002   |
| 7.          |                     | D. Shimazaki et al., "Performance of Distributed-Controller Dynamic Wavelength-Conversion Optical Networks", Technical Report of IEICE, the Institute of Electronics, Information and Communication Engineers, PN2002-51 (2002-10), pp. 11 - 16 (English Abstract) |

Examiner:

Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.